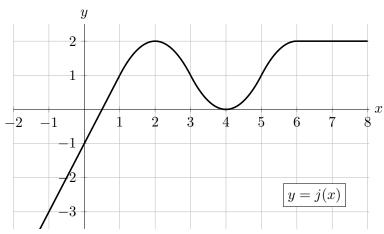
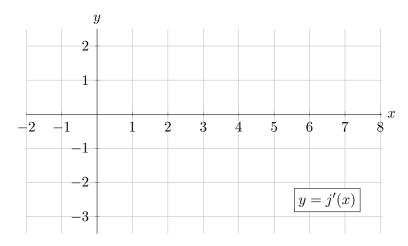
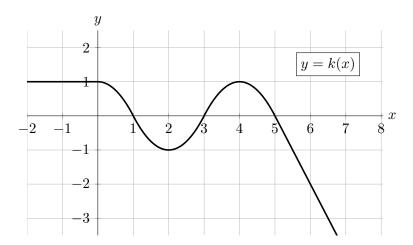
8. [11 points] A portion of the graph of the function j(x) is shown below. Note that j(x) is linear for x < 1 and x > 6.



a. [7 points] On the axes below, carefully sketch the graph of j'(x), the derivative of j(x), on the interval -2 < x < 8. Be sure that your graph carefully indicates where j'(x) is zero, positive, and negative, and where j'(x) is increasing, decreasing, and constant.



b. [4 points] Shown below is a portion of the graph of a function k(x) which can be obtained from j(x) through one or more graph transformations. Find a formula for k(x) in terms of j(x).



Answer: k(x) =